

PCT/PTO 03 DEC 2004

INTERNATIONAL SEARCH REPORT

Internat Application No

PCT/GB 03/02534

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 D21H21/16

According to International Patent Classification (IPC) or to both national classification and IPC

D. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 D21H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search forms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97 30039 A (NESTE OY ;MAEKIPEURA PETRI (FI); KAPANEN MIKA (FI); TULISALO JUKKA) 21 August 1997 (1997-08-21) page 7, paragraph 4 -page 8, paragraph 1; claims 1-13 page 11, paragraph 1	1,5,10
X	EP 0 359 316 A (PROCTER & GAMBLE) 21 March 1990 (1990-03-21) page 2, line 41-46; claims 1-8	1,5,10
A	US 5 939 562 A (HALME ERKKI ET AL) 17 August 1999 (1999-08-17) the whole document	1-12
A	US 6 359 093 B1 (OYANAGI SHOKO ET AL) 19 March 2002 (2002-03-19) the whole document	1-12
-/-		

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

17 October 2003

Date of mailing of the international search report

05/11/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlann 2
NL - 2280 HV Rijswijk
Tel: (+31-70) 340-2040. Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

Karlsson, L

INTERNATIONAL SEARCH REPORT

Interno I Application No

PCT/GB 03/02534

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 611 087 A (MORIYAMA NOBORU ET AL) 9 September 1986 (1986-09-09) the whole document	1-12
A	US 5 603 997 A (LINDGREN ERIK ET AL) 18 February 1997 (1997-02-18) the whole document	1-12

Best Available Copy

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internat Application No

PCT/GB 03/02534

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9730039	A	21-08-1997	FI 960639 A	14-08-1997
			AT 207476 T	15-11-2001
			AU 1068097 A	02-09-1997
			DE 69616383 D1	29-11-2001
			DE 69616383 T2	11-07-2002
			EP 0883614 A1	16-12-1998
			WO 9730039 A1	21-08-1997
EP 0359316	A	21-03-1990	AT 117683 T	15-02-1995
			CA 1300636 C	12-05-1992
			DE 68920806 D1	09-03-1995
			EP 0359316 A1	21-03-1990
			TR 25233 A	30-11-1992
			US 4956478 A	11-09-1990
US 5939562	A	17-08-1999	FI 96418 B	15-03-1996
			AU 3653995 A	02-05-1996
			CA 2201869 A1	18-04-1996
			EP 0804429 A1	05-11-1997
			WO 9611193 A1	18-04-1996
			JP 10506909 T	07-07-1998
US 6359093	B1	19-03-2002	JP 9048748 A	18-02-1997
			JP 9048749 A	18-02-1997
			JP 9052867 A	25-02-1997
			JP 9067415 A	11-03-1997
			JP 9157311 A	17-06-1997
			JP 9059214 A	04-03-1997
			US 6057412 A	02-05-2000
			DE 69603789 D1	23-09-1999
			DE 69603789 T2	02-12-1999
			EP 0747342 A1	11-12-1996
			JP 9052872 A	25-02-1997
			KR 221558 B1	15-09-1999
			US 5872287 A	16-02-1999
US 4611087	A	09-09-1986	JP 59128353 A	24-07-1984
			JP 59116249 A	05-07-1984
			DE 3340380 A1	30-05-1984
US 5603997	A	18-02-1997	SE 469080 B	10-05-1993
			AT 115493 T	15-12-1994
			AU 659226 B2	11-05-1995
			AU 2729592 A	20-05-1993
			BR 9204149 A	29-06-1993
			CA 2081081 A1	29-04-1993
			DE 69200913 D1	26-01-1995
			DK 540075 T3	18-04-1995
			EP 0540075 A1	05-05-1993
			ES 2065744 T3	16-02-1995
			FI 924820 A	29-04-1993
			JP 2538487 B2	25-09-1996
			JP 5230794 A	07-09-1993
			KR 9614919 B1	21-10-1996
			NO 924142 A ,B,	29-04-1993
			NZ 244867 A	26-07-1995
			RU 2104240 C1	10-02-1998
			SE 9103139 A	29-04-1993

Best Available Copy